ANX D TO DGDP TENDER NUMBER 216.07.485.25 DATED: 06 NOVEMBER 2025

# DESCRIPTION OF TECHNICAL SPECIFICATION FOR 1000-1200 MA/150 KV X-RAY MACHINE WITH STANDARD ACCESSORIES, QUANTITY-01, (DP-5)

(Tenderer must fill up this format without changing its basic structure)

Ser no	Description	Technical specification	To be filled up by the principal / Manufacture					
(a)	(b)	(c)	(d)					
1.	General Specification: Ge							
••	a. Nomenclature	The state of the s						
	b. Brand							
	c. Model	To be mentioned. Model should be latest.	·					
	d. Name of Manufacture with Complete Address	To be mentioned.						
	e. Name of Principal with Complete Address	To be mentioned.						
	f. Name of Local Agent with Complete Address	f. Name of Local Agent with Complete Address  To be mentioned.						
	g. Year of Production	Not before the calendar year of contract.						
	h. Country of Origin & Manufacturer	Group-A: Bangladesh, Australia, Austria, Belgium, Brazil, Canada, Denmark, Finland, France, Germany, Indonesia, Ireland, Japan, Luxemburg, Netherlands, Norway, Singapore, Spain, Sweden, Switzerland, Turkey, UK, USA, South Korea & Italy.						
	j. Port of shipment	Same country of manufacture for Main System. Other Items/ Equipment's/ Accessories and Local supplied item to be mentioned specifically.						
2.	Function/Capability: To be	e mentioned.						
3.	Features/Facilities: Follow available.							
	a. State of the art high end based auto positioning and							
	b. Integrated Flat detector of							
	c. Should have AEC with m							
	d. Should have automatic > optimization of the exposur							
	e. The system should have							
	f. The system should have							
	g. Continuous monitoring fa to avoid the risk of overload							
	h. Memory for different rad							
	j. Anatomical Programmers							
	k. Light beam Collimator to							
	I. Diagnostic X-Ray Table v							
	m. Vertical Bucky Stand wi							
	n. Removable Grids for Ve							
	p. Integrated X-Ray and D	<del> </del>						
	q. The Detector and the C integrated with the X-ray c							
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Ser	Description	Technical specification	To be filled up by the principal / Manufacture				
no			/ Wanutacture				
4.	longitudinal tube travel and tb. Max. Patient Coverage c. Table height d. Max patient weight e. Table top dimensions more f. Longitudinal travel (Table	: 190±2 cm : 52cm – 95cm (continuously adjustable) : 300Kg or more : 220 mm or more (motor-driven) with 30 mm/sec or					
		g. Transverse travel (Table Top): ± 14 cm					
5.	technology with constant out b. Generator capacity must lic. KVP range 40 KV-150 KV d. mA Output Should be 800 e. Exposure time should be f. Generator capacity must big. Automatic exposure contand wall stand each.  h. Anatomical Protocol (AP protocol which is needed in The generator must be contant and the stand each.	d high frequency X-Ray Generator should be of latest tout with low ripple frequency be 80 KW or more	•				
		osure parameters from the software contolo.					
6.	X-ray Tube :						
	a. 10" multi-functional touch operation next to patient.						
	b. Nominal voltage	: 150 kV or more					
	c. Dual Focal Spot	: 0.6/1.2 or more	<u> </u>				
	d. Anode heat storage capa						
	e. Anode drive frequency						
	f. Total filtration	: ≥ 2.5 mm Al					
	g. Should have motorized a						
	h. Patient Dose Measureme						
7.	Primary collimator:						
	a. Manual or Motorized conf	rol pre-set via organ programs					
	b. Inherent filtration at 80kV						
	c. Cu-prefilter 0.3 mm	: Motorized & position able, 0.1 mm, 0.2 mm,					
	d. Collimator rotation	: Up to max ± 45°					
	e. Full field light locazier	: 4 W High power LED.					
		nt chamber in the collimator housing to measures the dose mGy/cm²)					
8.	Ceiling mounted tube sup	port:					
	a. Horizontal travel range	: 345 cm or more					
1	b. Transverse travel range	: 220 cm or more					
Ì		(50 (					
	c. Vertical travel range	: 150 cm or more (manual or motorized)					
	c. Vertical travel range						
		axis :-155° to +180° manual					

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Ser no	Description	Technical specification	To be filled up by the principal / Manufacture
9.	Flat Detector for Table:		
٥.	a. 35 cm x 43 cm or more Fla		
	b. Material	: Amorphous silicon with CsI scintillator	
	c. Resolution Matrix	: 2350 x 2865 approx or more.	
	d. Pixel size	: 148μm or less	
	e. DQE	: 70% at 0.05 lp/mm	
	f. Digitization Depth	: 16 bits	
	g. Data Transmission	: 2s preview, 5 s full image	
	h. Weight	: 3.5 kg or less : 300 kg with recumbent patient, 100 kg with standing	
	j. Max. Load Capacity patient.		
	k. Battery type & Capacity to be	: Lithium-ion, rechargeable, exchangeable, Capacity mentioned	
	I. Charging Location	: Table Detector Tray or Bucky Stand Detector Tray.	
10.	Flat Detector for Bucky St		
 I	a. 43 cm x 43 cm or more Fl	at Panel Solid State fixed detector.	
	b. Material	: Amorphous silicon with CsI scintillator	
	c. Resolution Matrix	: 2360 x 2860 approx.	
		: 148µm or less	
	d. Pixel size	: 65% at 0.05 lp/mm	
	e. DQE		
	f. Digitization Depth	: 16 bits	
	g. Data Transmission	: 3.5 s preview, 6 s full image	
11.	Chest Detector Stand:		
	a. Auto tracking facility of x-		
	b. Vertical Travel Range	: 30 cm to 170 cm or more	
	c. Detector Unit Tilt	: -20° to +90°	
12.	Control System:		
'	a. Complete system operation a single integrated console.		
	b. The examination procedu		
	c. The generator parameter well as image processing		
	protocol. d. Manual positioning of the		
	e. Automatic positioning of		
	f. Automatic centering of		
	centered in the transverse		
	g. Collision monitoring of z-		
13.	Digital Imaging System:		
	a. The entire control and image processing takes radiography system with E		
	b. Computer : Intel Xeon of more RAM, SATA & SSD H		
	c. Operating System : Wind		
	d. Image storage: 15,000		
	e. Diagnostic Monitor: 2: brightness 400 cd/m²	3" tiltable multitouch full HD color monitor with maximum	
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Ser no		Description			Те	chnical spec	ification		To be filled up by the principal / Manufacture
110	f. Body Model with visual selection of clinical protocol steps including adding, deleting or replacing as well as selection of generator and AEC parameters with patient size adapter.								
	g. Clinical protocol steps combined of multiple imaging parameters for particular body parts and imaging exposure and postprocessing. Clinical protocol steps can be stored, customized and arranged in clinical protocols using the advanced clinical protocol editor. The system should automatically select the next clinical protocol step in the chosen clinical protocol as each exam step is completed.								
	h. Smart Al based image processing engine that deploys smart technologies to produce superb, consistent images with neural networks detecting the collimator edges extremely efficiently, and adaptive noise cancelling removing image noise, which will also enable low dose settings for all clinical tasks								
	j. Gridless acquisition of free exposures, especially Thorax using Al functionalities for superior contrast and easier handling								
							lp of 3D Camera.		
	I. Long leg and full spine image acquisition facility with the help of smart automatic image stitching. Tilting acquisitions of up to 3 images on the patient table and up to 4 images on bucky stand. Multipurpose stand must be provided to stabilize the patient during long leg/full spine image acquisition with bucky stand. 3D Camera must be used to enable accurate collimation and to help users to see if they can perform an exam with								
4.4	fewer in		aor/ E	Im Drinto	•				
14.	a. Resc	ser/ Digital Ima		dpi or mo		<del></del>			
	b. Spot			μm or sm					
	c. Film		· 8" x	<u>μπισισιπ</u> 10" 10" x	12" 11"	x 14", 14" x 1	4" & 14" x 17"		
	d. Thro		: 70 5	Sheets (14	" x 17")/ h	nour or more			
		ly Magazine/Tra					oply magazine.		
	f Tray/	Magazine featu	re: All	5 size (8"	x 10", 10'	' x 12". 11" x	14", 14" x 14" & 1	4" x 17")	
		nting facility from				, , , , ,		•	
		OM Compatible I				size 8" x 10" 1	to 14" x 17"		
15.	<del></del>	ories & Others		<u></u>					
	a. Lead			x 600 mn	n, 1.5 mm	pb or equiva	lent		
	b. 2 Ton Air Conditioner, Qty-01 No (Brand, Model, Country of Origin and Manufacturer								
	- To be mentioned)								
	c. Lead sheet for door								
	d. Voltage Stabilizer Compatible for x-ray Machine (Brand, Model, Capacity with backup								
	time, Country of Origin and Manufacturer - To be mentioned)								
	e. Online UPS for Workstation (Brand, Model, Capacity with backup time, Country of								
	Origin and Manufacturer - To be mentioned)								
	f. Equipment table and operator's chair								
	g. Thermal laser printer for report printing (Brand, Model, Country of Origin and								
16	Manufacturer - To be mentioned)								
16.	<u>Complete BOQ/BOM.</u> All Foreign & Local supplied items to be listed separately for full range of operation of the equipment as per following table:								
	Ser	Name of	Qty	Brand	Model	Country	Country of	Remarks	
		item	Qty	Diana	Inouci	of Origin	Manufacturer	- rtomant	
	-			<u> </u>					
			<u> </u>	I	L	L	<u> </u>	<u> </u>	
17.	Foreig	n Training							
	a. Operational Training: 01x Radiologist & 02x Radiographer for 5 days (without								
	journey period).								
40	b. Repair/Maintenance Training: Not required								
18.	Local Training								
	a. Operational Training : 02x Operator for 02 weeks. b. Repair/Maintenance Training : 02x EM Tech for 02 weeks.								
	ı b. Kebi	air/iviaintenance	ıraınıı	<u>ig: U2X</u>	L ⊏IVI I ecr	I TOT UZ WEEK	S		50N 050

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Ser no	Description	Technical specification	To be filled up by the principal / Manufacture
19.	Warranty Inspection	: 05 (Five) years from the date of issuance of Note (I/Note).	
20.	After sales service	: 10 (Ten) years from the date of installation	
21.	Certificate of quality	: FDA/CE/JIS Certificate must be submitted with offer.	
22.	Books and Publication		
	Following books and publifree of cost.  a. Operational manual – 03  b. Repair/Maint/Service mar (01x Original & 02x Photococc. Parts Catalogue/Master Fd. 100% Spare Parts list with Note: In addition to hard copublications will be supplied.		
23.	If any other feature/items no offered equipment to be me		

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